

REMARKS

STATUS OF THE APPLICATION

Claims 1-30 were pending in this application. Claims 7, 17, and 27 are rejected under 35 U.S.C. §112, second paragraph, for insufficient antecedent basis for the term "said contour image". Claims 1, 4, 6, 9, 11, 16, 19, 21, 26, and 29 are rejected under 35 U.S.C. §102(e) as being anticipated by Aalbersberg (U.S. Patent 5,946,678). Claims 2-3, 5, 7, 12-14, 15, 17, 22-24, 25, and 27 are rejected under 35 U.S.C. §103(a) as being unpatentable over Aalbersberg in view of Greenberg et al. "Awareness Through Views in Relaxed-WYSIWIS Groupware", Proceedings of Graphic Interface, Toronto, Canada, 1995 (hereinafter "Greenberg"). Claims 2, 3, 5, 7, 8, 10, 18, 20, 22, 23, 25, 27, 28, and 30 are rejected under 35 U.S.C. §103(a) as being unpatentable over Aalbersberg in view of Greenberg and further in view of Ball et al. "Software Visualization in the Large", IEEE Computer, Vol. 29, No. 4, pp. 33-43, 4/1996 (hereinafter "Ball"). Claim 2 is objected to for informalities.

Claims 1-5, 7-8, 10-15, 17-18, 20-25, 27-28, and 30 have been amended. Claims 6, 9, 16, 19, 26, and 29 have been cancelled without prejudice. New claims 31-36 have been added. No new matter has been added.

Claims 1-5, 7-8, 10-15, 17-18, 20-25, 27-28, and 30-36 remain pending in this application after entry of this amendment.

THE DRAWINGS

Applicant has amended Fig.5 to insert inadvertently omitted reference 508 (described on page 9, line 12 of the specification). Applicant submits that no new subject matter has been introduced by the amendment.

THE CLAIMS

Claim Objections

Claim 2 has been amended to overcome the objection.

Canceled Claims

Claims 6, 9, 16, 19, 26, and 29 have been canceled without prejudice.

Rejections under 35 U.S.C. § 112, second paragraph

Claims 7, 17, and 27 have been amended to overcome the rejections.

Rejections under 35 U.S.C. § 102(e)

Claim 1

Applicant submits that Aalbersberg does not show or suggest each and every feature recited in Applicant's claim 1, as amended. For example, in addition to other features, amended claim 1 recites:

receiving user input identifying a user-specified concept of interest;  
analyzing said electronically stored document to identify locations of discussion of said user-specified concept of interest in the electronically stored document; and  
displaying a visual indicator showing concentration of said locations of discussion at various points within the electronically stored document. (Applicant's claim 1, as amended, emphasis added).

As recited in amended claim 1, a visual indicator is displayed that shows the concentration, or persistence, of locations of discussion of the concept of interest at various points within the electronically stored document. For example, as depicted in Fig. 4 of the application and described in the specification on page 8 lines 16-30, a visual indicator (annotation contour 402) is displayed showing the concentration or persistence of the term (or concept) "paper" within the document. As shown, occurrences of the word "paper" are more heavily concentrated in the start and the end of the document, as indicated by the peaks in the visual indicator. Likewise, as depicted in Fig. 7C of the application and described on page 12 of the specification, a visual indicator (annotation contour 712) is displayed showing the concentration of the concept "wearable" within the document.

By showing the concentration of the locations of a concept at various points within a document, as claimed in claim 1, the visual indicator conveys information

to a reader of the document regarding which sections or portions of the document are most relevant to or contain most occurrences of the concept. The visual indicator, as recited in claim 1, thus provides an indication of the distribution of the locations of discussion of a concept throughout the electronically stored document. Applicant submits that such a concept is not taught by Aalbersberg.

Aalbersberg teaches techniques for displaying information that indicates the relevance or weight of each query word in the selection of a document. In Aalbersberg, a distinctive representation is uniquely associated with each query word. Then, for each document found by applying the query words, an indicator is displayed for the document that employs the same distinctive representation to directly indicate to the user the relative contributions of the individual words of the query for the document. (Aalbersberg: col. 2 lines 1-8). The extent of the respective distinctive representations informs the user of the relative contribution or relevance of each of the query words for a document. (Aalbersberg: col. 2 lines 12-49).

However, unlike the present invention, as claimed in claim 1, Aalbersberg does not provide any indication as to how the query words are distributed or concentrated at various points within the document. In fact, Aalbersberg is not concerned about where and how the query words are distributed within document--Aalbersberg is only concerned about displaying the weight of a particular query word in the selection of a document.

For example, as depicted in Fig. 3 of Aalbersberg, a plurality of query words are displayed and each word has a distinctive representation uniquely associated with it that is different for all of the words. For example, the word "car" is displayed on a lightly shaded background 41, the word "europe" is displayed on a heavily shaded background 43, and the word "sales" is displayed on a medium shaded background 43. (Aalbersberg: col. 5 lines 34-44) Fig. 4 of Aalbersberg displays names of documents found by applying the query words displayed in Fig. 3 of Aalbersberg. A second indicator 49 is displayed for each document. Indicator 49 displays the same distinctive representation, i.e., the shading, representing for the adjacent document the relative contributions of each of the query words. For example, the first document contains the

word "car" only, but the word is important for the document. (Aalbersberg: col. 5 lines 45-58). The length of the shading uniquely associated with each word and displayed in indicator 49 indicate the importance of that word in the document. (Aalbersberg: col. 5 line 45 - col. 6 line 7). However, unlike the present invention as recited in claim 1, indicator 49 in Aalbersberg Fig. 4 does not provide any indication of the concentrations of word "car" at various points within the document--it merely shows the word "car" is found in the document and was heavily responsible for selection of the document. Likewise, indicator 49 associated with the last document in Fig. 4 of Aalbersberg indicates that words "car" and "sales" occur in the document and the importance of the words in the document. Again, this does not provide any indication of the concentrations of words "car" and "sales" at various points within the document. Fig. 5 of Aalbersberg shows the query words being highlighted in the text of the document. (Aalbersberg: col. 6 lines 8-39)

Applicant thus submits that the present invention as recited in claim 1 is substantially different from the teachings of Aalbersberg. As previously stated, Applicant's claim 1, in addition to other features, recites a visual indicator that shows the concentration of locations of discussion of a concept of interest at various points within the electronically stored document. Applicants submit that this concept is not taught by Aalbersberg.

In view of the above, Applicant submits that claim 1, as amended, is not anticipated by Aalbersberg and is thus in a condition for allowance.

#### Claims 4, 11, and 21

Applicant submits that claim 4 which depends from claim 1 should also be allowed for at least a similar rationale as discussed for allowing claim 1, and others.

Applicant further submits that independent claims 11 and 21 should be allowable for at least a similar rationale as discussed for allowing claim 1, and others.

Rejections under 35 U.S.C. § 103(a)

As described above, Aalbersberg does not anticipate the "visual indicator" feature recited in Applicant's claim 1. Applicant further submits that such a feature is also not taught by Greenberg or Ball considered individually or in combination with the other references.

Greenberg teaches "fisheye views" that show the global and local detail within a single window. The section (page 7, Section 3.3, Fig. 5a) of Greenberg cited by the Examiner in the Office Action describes a fisheye lens to present a text document (as illustrated in Fig. 5a of Greenberg). As shown in Fig. 5a, most of the document is shown at a very small font, which gives the reader a sense of the document's global structure. The user can view local detail by selecting a focal point within the document which produces the effect of an optical lens sliding up and down over the document. The line at the focal point is shown in large font with the surrounding lines gradually decreasing in size until the default background size is reached (as shown in Fig. 5a). Users can tailor the shape and magnification of the fisheye lens. Multiple people can view the same document and are shown in the display.

Greenberg thus describes a technique of viewing a document. However, Greenberg does not teach a visual indicator that shows the concentration of locations of discussion of a concept of interest at various points within an electronically stored document, as claimed in Applicant's claim 1.

Ball teaches techniques for visualizing production of software (e.g., code version history, differences between releases, etc.). However, none of the techniques taught by Ball describe a visual indicator that shows the concentration of locations of discussion of a concept of interest at various points within an electronically stored document, as claimed in Applicant's claim 1.

Applicant thus submits that neither Aalbersberg, Greenberg, nor Ball individually teach the visual indicator recited in Applicant's claim 1. Further, even if the references were combined (and there is no motivation to do so), the resultant combination would also not teach a visual indicator that shows the concentration of locations of

discussion of a concept of interest at various points within a electronically stored document, as claimed in Applicant's claim 1. Applicant thus submits that claim 1 is not made obvious by the cited references, considered individually or in combination.

Applicant submits that independent claims 10, 11, 20, 21, and 30 are also not made obvious by the cited references, considered individually or in combination, for at least a similar rationale as discussed for claim 1, and others. Accordingly, claims 10, 20, and 30 are also in a condition for allowance. Claims 2-3, 5, 7, and 8 that depend from claim 1, claims 12-14, 15, 17, and 18 that depend from claim 11, and claims 22-24, 25, 27, and 28 that depend from claim 21, should also be allowed for at least a similar rationale as discussed for allowing claims 1, 11 and 21, and others.

#### New Claims

Applicants have added new claims 31-36 to claim aspects of the present invention. Applicants submit that the new claims are in a condition for allowance.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The first page of the marked-up version is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE".

#### CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

Jamey Graham  
Application No.: 09/348,652  
Page 16

PATENT

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE DRAWINGS:**

Fig. 5 has been amended to include reference 508.

**IN THE CLAIMS:**

Claims 6, 9, 16, 19, 26, and 29 have been canceled without prejudice.

New claims 31-36 have been added as shown below.

Claims 1-5, 7-8, 10-15, 17-18, 20-25, 27-28, and 30 have been amended as follows.

1                   1.       (Amended) A method of **[for providing an interest profile for]**  
2 displaying an electronically stored document, said method comprising:  
3                   **[accepting]** receiving user input **[indicating]** identifying a user-specified  
4 **[concepts]** concept of interest;  
5                   analyzing said electronically stored document to identify locations of  
6 discussion of said user-specified concept of interest in the electronically stored document;  
7 and  
8                   **[displaying an indication of presence of discussion about said concepts**  
9 **of interest within said electronically stored document, wherein said indication**  
10 **provides to a reader an approximate position of said discussion within said**  
11 **electronically stored document.]**  
12                   displaying a visual indicator showing concentration of said locations of  
13 discussion at various points within the electronically stored document.

1                   2.       (Amended) The method of claim 1 wherein **[said displaying said**  
2 **indication of presence further comprises:**  
3                   **displaying a contour graph image corresponding to said electronically**  
4 **stored document in a viewing area of a display, said contour graph image depicting**



5     **a relative presence of at discussions of at least one of a plurality of concepts of**  
6     **interest to said user.]**

7                 said visual indicator comprises a contour graph image that indicates  
8     relative strength of said user-specified concept at various locations within said  
9     electronically stored document.

1                 3.     (Amended) The method of claim [2] 1 wherein said visual  
2     indicator [graph further] comprises a line graph.

1                 4.     (Amended) The method of claim [2] 1 wherein said visual  
2     indicator [graph further] comprises a bar graph.

1                 5.     (Amended) The method of claim [2] 1 wherein said visual  
2     indicator [graph further] comprises a scatter diagram.

3                 6.     (Canceled)

1                 7.     (Amended) The method of claim [1] 31 further comprising:  
2                 accepting user input [controlling] moving said slider [a sliding pointer  
3     through said contour image for the purposes of indicating sections of said  
4     electronically stored document to display.] to a second section of said visual indicator;  
5     and  
6                 responsive to movement of said slider to said second section of said visual  
7     indicator, displaying a section of said electronically stored document corresponding to  
8     said second section of said visual indicator on said display.

1                 8.     (Amended) The method of claim [2] 1 further comprising:  
2                 displaying [**a second indication of presence of said concepts of interest,**  
3     **said second indication comprising]** an elongated thumbnail image of a portion of said  
4     electronically stored document in a viewing area of a display, wherein portions of said  
5     elongated thumbnail image corresponding to said locations of discussion in said portion

6 of the electronically stored documents are annotated. [said thumbnail image having at  
7 **least one of a plurality of indications of locations of discussion of concepts of interest**  
8 **to said user.]**

1 9. (Canceled)

1 10. (Amended) A method [for providing an interest profile for] of  
2 displaying an electronically stored document, said method comprising:  
3 **[accepting] receiving** user input **[indicating] identifying** a plurality of  
4 user-specified concepts of interest;  
5 **[analyzing said electronically stored document to identify locations of**  
6 **discussion of said user-specified concept of interest;]**  
7 displaying a plurality of selectable concept indicators, said selectable  
8 concept indicators corresponding to said user-specified concepts of interest;  
9 accepting user input selecting **[at least one of] a first selectable concept**  
10 indicator from said plurality of selectable concept indicators corresponding to a first user-  
11 specified concept of interest;  
12 analyzing said electronically stored document to identify locations in said  
13 electronically stored document where said first user-specified concept of interest is  
14 discussed; and  
15 displaying a visual indicator showing concentration of said locations in  
16 said electronically stored document where said first user-specified concept of interest is  
17 discussed.  
18 **[displaying an indication of presence of discussion about said concepts**  
19 **of interest within said electronically stored document, wherein said indication of**  
20 **presence comprises a contour graph image corresponding to said electronically**  
21 **stored document, said contour graph image depicting a relative presence of**  
22 **discussions of at least one of a plurality of concepts of interest based upon the**  
23 **concept selected by the user; and**

24                    **displaying a second indication of presence of said concepts of interest,**  
25   **said second indication comprising an elongated thumbnail image of a portion of said**  
26   **electronically stored document in a viewing area of a display, said thumbnail image**  
27   **having at least one of a plurality of indications of locations of discussion of concepts**  
28   **of interest based upon the concept selected by the user.]**

1                    11.    (Amended) A computer program product for **[providing an**  
2   **interest profile for]** displaying an electronically stored document, said computer  
3   program product comprising:  
4                    code for **[accepting]** receiving user input **[indicating]** identifying a user-  
5   specified **[concepts]** concept of interest;  
6                    code for analyzing said electronically stored document to identify  
7   locations of discussion of said user-specified concept of interest in the electronically  
8   stored document;  
9                    **[code for displaying an indication of presence of discussion about said**  
10   **concepts of interest within said electronically stored document, wherein said**  
11   **indication provides to a reader an approximate position of said discussion within**  
12   **said electronically stored document; and]**  
13                    code for displaying a visual indicator showing concentration of said  
14   locations of discussion at various points within the electronically stored document; and  
15   a computer readable storage medium for holding the codes.

1                    12.    (Amended) The computer program product of claim 11 wherein  
2   **[said code for displaying said indication of presence further comprises:**  
3                    **code for displaying a contour graph image corresponding to said**  
4   **electronically stored document in a viewing area of a display, said contour graph**  
5   **image depicting a relative presence of at discussions of at least one of a plurality of**  
6   **concepts of interest to said user.]** said visual indicator comprises a contour graph image  
7   that indicates relative strength of said user-specified concept at various locations within  
8   said electronically stored document.

1                   13.     (Amended) The computer program product of claim [12] 11  
2 wherein said **[graph further]** visual indicator comprises a line graph.

3                   14.     (Amended) The computer program product of claim [12] 11  
4 wherein said **[graph further]** visual indicator comprises a bar graph.

1                   15.     (Amended) The computer program product of claim [12] 11  
2 wherein said **[graph further]** visual indicator comprises a scatter diagram.

1                   16.     (Canceled)

1                   17.     (Amended) The computer program product of claim [11] 33  
2 further comprising:  
3                   code for accepting user input **[controlling]** moving said slider [a sliding  
4 **pointer through said contour image for the purposes of indicating sections of said**  
5 **electronically stored document to display.]** to a second section of said visual indicator;  
6 and  
7                   code for displaying a section of said electronically stored document  
8 corresponding to said second section of said visual indicator on said display responsive to  
9 movement of said slider to said second section of said visual indicator.

1                   18.     (Amended) The computer program product of claim [12] 11  
2 further comprising:  
3                   code for displaying **[a second indication of presence of said concepts of**  
4 **interest, said second indication comprising]** an elongated thumbnail image of a portion  
5 of said electronically stored document in a viewing area of a display, wherein portions of  
6 said elongated thumbnail image corresponding to said locations of discussion in said  
7 portion of the electronically stored documents are annotated. **[said thumbnail image**  
8 **having at least one of a plurality of indications of locations of discussion of concepts**  
9 **of interest to said user.]**

1                   19.     (Canceled)

1                   20.     (Amended) A computer program product for providing an interest  
2 profile for an electronically stored document, said computer program product comprising:  
3                   code for **[accepting]** receiving user input **[indicating]** identifying a  
4 plurality of user-specified concepts of interest;  
5                   **[code for analyzing said electronically stored document to identify**  
6 **locations of discussion of said user-specified concept of interest;]**  
7                   code for displaying a plurality of selectable concept indicators, said  
8 selectable concept indicators corresponding to said user-specified concepts of interest;  
9                   code for accepting user input selecting **[at least one of]** a first selectable  
10 concept indicator from said plurality of selectable concept indicators corresponding to a  
11 first user-specified concept of interest;  
12                   code for analyzing said electronically stored document to identify  
13 locations in said electronically stored document where said first user-specified concept of  
14 interest is discussed;  
15                   code for displaying a visual indicator showing concentration of said  
16 locations in said electronically stored document where said first user-specified concept of  
17 interest is discussed; and  
18                   **[displaying an indication of presence of discussion about said concepts**  
19 **of interest within said electronically stored document, wherein said indication of**  
20 **presence comprises a contour graph image corresponding to said electronically**  
21 **stored document, said contour graph image depicting a relative presence of**  
22 **discussions of at least one of a plurality of concepts of interest based upon the**  
23 **concept selected by the user; and**  
24                   **displaying a second indication of presence of said concepts of interest,**  
25 **said second indication comprising an elongated thumbnail image of a portion of said**  
26 **electronically stored document in a viewing area of a display, said thumbnail image**

27 **having at least one of a plurality of indications of locations of discussion of concepts**  
28 **of interest based upon the concept selected by the user; and]**  
29 a computer readable storage medium for containing the codes.

1 21. (Amended) A system for providing an interest profile for an  
2 electronically stored document, said system comprising:  
3 a memory;  
4 a display;  
5 a processor, interconnected to said memory and said display by a bus, said  
6 processor operatively disposed to:  
7 **[accept] receive** user input **[indicating] identifying a** user-specified  
8 **[concepts] concept** of interest;  
9 analyze said electronically stored document to identify locations of  
10 discussion of said user-specified concept of interest in the electronically stored document;  
11 and  
12 **[display an indication of presence of discussion about said concepts of**  
13 **interest within said electronically stored document, wherein said indication provides**  
14 **to a reader an approximate position of said discussion within said electronically**  
15 **stored document.]**  
16 display a visual indicator showing concentration of said locations of  
17 discussion at various points within the electronically stored document.

1 22. (Amended) The system of claim 21 wherein **[said displaying said**  
2 **indication of presence further comprises:**  
3 **displaying a contour graph image corresponding to said electronically**  
4 **stored document in a viewing area of a display, said contour graph image depicting**  
5 **a relative presence of at discussions of at least one of a plurality of concepts of**  
6 **interest to said user.]**

7                    said visual indicator comprises a contour graph image that indicates  
8   relative strength of said user-specified concept at various locations within said  
9   electronically stored document.

1                    23.    (Amended) The system of claim [22] 21 wherein said **[graph**  
2   **further]** visual indicator comprises a line graph.

1                    24.    (Amended) The system of claim [22] 21 wherein said **[graph**  
2   **further]** visual indicator comprises a bar graph.

1                    25.    (Amended) The system of claim [22] 21 wherein said **[graph**  
2   **further]** visual indicator comprises a scatter diagram.

1                    26.    **(Canceled)**

1                    27.    (Amended) The system of claim [21] 35, wherein said processor is  
2   further operative to:

3                    accept user input **[controlling a sliding pointer through said contour**  
4   **image for the purposes of indicating sections of said electronically stored document**  
5   **to display.]** moving said slider to a second section of said visual indicator; and  
6                    display a section of said electronically stored document corresponding to  
7   said second section of said visual indicator on said display responsive to movement of  
8   said slider to said second section of said visual indicator.

1                    28.    (Amended) The system of claim [22] 21, wherein said processor is  
2   further operative to:

3                    display **[a second indication of presence of said concepts of interest,**  
4   **said second indication comprising]** an elongated thumbnail image of a portion of said  
5   electronically stored document in a viewing area of **[a]** said display, wherein portions of  
6   said elongated thumbnail image corresponding to said locations of discussion in said  
7   portion of the electronically stored documents are annotated. [said thumbnail image

8 **having at least one of a plurality of indications of locations of discussion of concepts**  
9 **of interest to said user.]**

1 29. (Canceled)

1 30. (Amended) A system for providing an interest profile for an  
2 electronically stored document, said system comprising:  
3 a memory;  
4 a display;  
5 a processor, interconnected to said memory and said display by a bus, said  
6 processor operatively disposed to:  
7 **[accept] receive** user input **[indicating] identifying a plurality of** user-  
8 specified concepts of interest;  
9 **[analyze said electronically stored document to identify locations of**  
10 **discussion of said user-specified concept of interest;]**  
11 display a plurality of selectable concept indicators, said selectable concept  
12 indicators corresponding to said user-specified concepts of interest;  
13 accept user input selecting **[at least one of] a first selectable concept**  
14 indicator from said plurality of selectable concept indicators corresponding to a first user-  
15 specified concept of interest;  
16 analyze said electronically stored document to identify locations in said  
17 electronically stored document where said first user-specified concept of interest is  
18 discussed; and  
19 display a visual indicator showing concentration of said locations in said  
20 electronically stored document where said first user-specified concept of interest is  
21 discussed.  
22 **[display an indication of presence of discussion about said concepts of**  
23 **interest within said electronically stored document, wherein said indication of**  
24 **presence comprises a contour graph image corresponding to said electronically**  
25 **stored document, said contour graph image depicting a relative presence of**



26 **discussions of at least one of a plurality of concepts of interest based upon the**  
27 **concept selected by the user; and**  
28 **display a second indication of presence of said concepts of interest,**  
29 **said second indication comprising an elongated thumbnail image of a portion of said**  
30 **electronically stored document in a viewing area of a display, said thumbnail image**  
31 **having at least one of a plurality of indications of locations of discussion of concepts**  
32 **of interest based upon the concept selected by the user.]**

1 31. (New) The method of claim 1 further comprising:  
2 displaying a section of said electronically stored document on a display;  
3 and  
4 displaying a slider on said visual indicator, said slider highlighting a  
5 section of said visual indicator corresponding to said section of said electronically stored  
6 document displayed on said display.

1 32. (New) The method of claim 10 further comprising:  
2 accepting user input selecting a second selectable concept indicator from  
3 said plurality of selectable concept indicators corresponding to a second user-specified  
4 concept of interest; and  
5 displaying a visual indicator showing concentration of locations in said  
6 electronically stored document where said second user-specified concept of interest is  
7 discussed.

1 33. (New) The computer program product of claim 11 further  
2 comprising:  
3 code for displaying a section of said electronically stored document on a  
4 display; and  
5 code for displaying a slider on said visual indicator, said slider  
6 highlighting a section of said visual indicator corresponding to said section of said  
7 electronically stored document displayed on said display.

1                   34.   (New) The computer program product of claim 20 further  
2 comprising:  
3                   code for accepting user input selecting a second selectable concept  
4 indicator from said plurality of selectable concept indicators corresponding to a second  
5 user-specified concept of interest; and  
6                   code for displaying a visual indicator showing concentration of locations  
7 in said electronically stored document where said second user-specified concept of  
8 interest is discussed.

1                   35.   (New) The system of claim 21 wherein said processor is further  
2 operative to:  
3                   display a section of said electronically stored document on said display;  
4 and  
5                   display a slider on said visual indicator, said slider highlighting a section  
6 of said visual indicator corresponding to said section of said electronically stored  
7 document displayed on said display.

1                   36.   (New) The system of claim 30 wherein said processor is further  
2 operative to:  
3                   accept user input selecting a second selectable concept indicator from said  
4 plurality of selectable concept indicators corresponding to a second user-specified  
5 concept of interest; and  
6                   display a visual indicator showing concentration of locations in said  
7 electronically stored document where said second user-specified concept of interest is  
8 discussed.

